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DATE MAILED: 10/01/2009

# NOTICE OF ALLOWANCE AND FEE(S) DUE

23|17 7590 10/01/2009 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203

EXAMINER						
ABEDIN, SHANTO						
ART UNIT	PAPER NUMBER					
2436	•					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/714,519	11/17/2003	Simon Charles Watt	550-480	6837			
TITLE OF INVENTION: EXCEPTION TYPES WITHIN A SECURE PROCESSING SYSTEM							

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 01/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off ions	or transmitting the og the Patent, adv nerwise in Block	ance of 1, by (a	JE FEE and PUBLICAT rders and notification of a a) specifying a new corre	ION FEE (if requinaintenance fees vispondence address;	ired). I vill be and/o	Blocks 1 through 5 st mailed to the current r (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Not Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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								(Depositor's name)	
								(Signature)	
								(Date)	
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10/714,519	11/17/2003			Simon Charles Watt			550-480	6837	
TITLE OF INVENTION	EXCEPTION TYPES	WITHIN A SECU	RE PR						
APPLN, TYPE	SMALL ENTITY	ISSUE FEE D	JE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510		\$300	\$0		\$1810	01/04/2010	
EXAM	INER	ART UNIT		CLASS-SUBCLASS					
ABEDIN,		2436		713-200000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident in 37 CFR 3.11. Comp	nge of Correspond  Indication form ed. Use of a Cust	omer	2. For printing on the g  (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent attorney or 2 registered patent attorney or 3 registered patent attorney or 4 registered patent attorney or 5 registered patent attorney or 6 registered patent attorney or 7 registered patent attorney or 7 registered patent or 1	3 registered pater vely, e firm (having as a agent) and the nam rneys or agents. If printed.  be) atent. If an assign assignment.	memb es of u no nan	er a 2p to p to lee is 3	ocument has been filed for	
Please check the appropri	ate assignee category or	categories (will n	ot be pi	rinted on the patent):	Individual 🗖 Co	orporati	ion or other private gro	up entity Government	
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies			41	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	iched. required fee(s), any de		
	SMALL ENTITY state	is. See 37 CFR 1.2		☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will not be a tes Patent and Tra	accepte demark	d from anyone other than to Office.	he applicant; a regi	stered	attorney or agent; or th	e assignee or other party in	
Authorized Signature					Date				
Typed or printed name					Registration N				
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.311. The inf U.S.C. 122 and 3 USPTO. Time w rden, should be se O NOT SEND FER	ormatic 7 CFR ill vary nt to th S OR	on is required to obtain or 1.14. This collection is es depending upon the indi- e Chief Information Offic COMPLETED FORMS T	retain a benefit by t timated to take 12 or ridual case. Any co er, U.S. Patent and D'THIS ADDRESS	he pub minuter mment Trader S. SEN	lic which is to file (and s to complete, includin is on the amount of tir nark Office, U.S. Deps D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,	

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# UNITED STATES PATENT AND TRADEMARK OFFICE

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10/714,519 11/17/2003		Simon Charles Watt	550-480	6837		
23117 75	90 10/01/2009		EXAMINER			
NIXON & VANI	DERHYE, PC	ABEDIN, SHANTO				
	BE ROAD, 11TH FLO	ART UNIT	PAPER NUMBER			
ARLINGTON, VA	22203	2436				

DATE MAILED: 10/01/2009

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1075 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1075 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/714.519 WATT ET AL. Notice of Allowability Examiner Art Unit SHANTO M AREDIN 2436 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the after final submission on 09/21/2009. The allowed claim(s) is/are 1,2,4-7,9,10,14-19,23-25,27-30,32-34 and 36-47. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) 🛛 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other . /SHANTO M ABEDIN/ Examiner, Art Unit 2436

Application/Control Number: 10/714,519 Page 2

Art Unit: 2436

# DETAILED ACTION

1. This office action is in response to the communication filed on 09/21/2009.

The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.

- 3. Claims 1-2, 4-7, 9-10, 14-19, 23-25, 27-30, 32-34 and 36-47 are pending in the application.
- Claims 1-2, 4-7, 9-10, 14-19, 23-25, 27-30, 32-34 and 36-47 are allowed.

# RESPONSE TO ARGUMENTS

- 5. The applicant's arguments regarding objections to claim 47 and 35 USC 112 second paragraph type rejections of claim 17 are fully considered. The previous objections and 35 USC 112 second paragraph type rejections are withdrawn because of the amendments made to the claims.
- The previous 35 USC 103(a) type rejections are withdrawn because of the amendments made to the claims.

# EXAMINER'S REASONS FOR ALLOWANCE

7. The following is an examiner's statement of reasons for allowances:

Independent claims 1, 14, 17, 24 and 37 are patentable over the cited prior arts because they do not anticipate nor fairly and reasonably teach independently or in combination a apparatus/ method comprising besides other limitations: processor configured to select said exception handler from among a plurality of possible exception handlers in dependence upon an exception vector value associated with said exception condition and stored within an active exception vector table for said exception condition and in dependence upon whether said processor is operating in said secure domain or said non-secure domain; and wherein said active exception vector table is one of a

Application/Control Number: 10/714,519 Page 3

Art Unit: 2436

plurality of exception vector tables, and at least two of said one or more exception conditions have respective programmable configurations associated therewith that control triggering of either a non-secure exception handler operating in a non-secure mode or a secure exception handler operating in a secure mode with any change of domain also being triggered when required; and wherein said processor is also operable in a monitor mode and any switching between a secure mode and a non-secure mode required for handling of an exception takes place via said monitor mode, said processor being operable at least partially in said monitor mode to execute a monitor program to manage switching between said secure mode and said non-secure mode.

In particular, regarding independent claims 1, 14, 17, 24 and 37, patentability exists, at least in part, with the recitation of wherein said active exception vector table is one of a plurality of exception vector tables, and at least two of said one or more exception conditions have respective programmable configurations associated therewith that control triggering of either a non-secure exception handler operating in a non-secure mode or a secure exception handler operating in a secure mode with any change of domain also being triggered when required; and wherein said processor is also operable in a monitor mode and any switching between a secure mode and a non-secure mode required for handling of an exception takes place via said monitor mode, said processor being operable at least partially in said monitor mode to execute a monitor program to manage switching between said secure mode and said non-secure mode.

Dependent claims are allowed because of their dependencies on the allowable independent claim.

# CONCLUSION

8. Claims 1-2, 4-7, 9-10, 14-19, 23-25, 27-30, 32-34 and 36-47 are patentable.

Application/Control Number: 10/714,519 Page 4

Art Unit: 2436

9. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on

Statement of Reasons for Allowance."

10. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Shanto M Z Abedin whose telephone number is 571-272-3551. The examiner

can normally be reached on M-F from 10:00 AM to 6:30 PM. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, Moazzami Nasser, can be reached on 571-

272-4195. The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shanto M. Abedin

Examiner, A.U. 2436

/Nasser G Moazzami/

Supervisory Patent Examiner, Art Unit 2436